# Date: 12/29/2019 04:14:58 PM Certification Summary Information Report

**Manufacturer Comments** 

Date: 12/2//2019 04:14:50 1 W		ary imprimution report		
Manufacturer	American Honda Motor Co., Inc.	Manufacturer Code	HNX	
<b>Engine Family</b>	KHNXC01.0CFA	Model Year	2019	
Certificate Number	N/A	Certificate Issue Date	N/A	
<b>Certificate Effective Date</b>	N/A	Certificate Revision Date	N/A	
General Information				
Vehicle Category	Highway Motorcycle - III(>-279cc)	Sales Areas of All Vehicles/Engines in This Engine Family	Some 50, Some 49	
Small Volume Manufacturer Recognition	Regular Volume	Are you Certifying This Vehicle/Engine By Design	No	
Manufacturer Code assigned by CARB	HOND	Parent Company Name		
<b>EPA Certification Fee Paid Date</b>	06/06/2018	Application Type	Correction	
Permeation	Family Name	Does this Perm Family participate in Average Banking and Trading?		
KHNXI	PMETAL02	]	No	
Does this EF participate in an EPA and/or CARB emission averaging program?	No	Does this EF participate in EPA and/or CARB emission averaging program?		
Testing procedure applied for exhaust emissions values	40CFR86, Subpart E: Chassis test	If Other, Please provide EPA/CARB approval ID for this testing procedure		
Are you the original manufacturer of the certifying vehicle/engine?	No			
Vehicle Original Equipment Manufacturer	Country where the Vehicles were assembled	Engine Original Equipment Manufacturer	Country where the Engines were assembled	
Honda Motor Co., Ltd.	Japan	Honda Motor Co., Ltd.	Japan	
		1		

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Engine Family		KHNXC01.0C	FA	Model Yea	r		2019	
EPA Emission S	tandards and Certifi	cation Levels						
	EPA Exhaust Emission	ns units:G/KM				-		
	Air Pollutant		нс	NOx	HC-	+NOx		СО
	Certification Lev	rel el			(	0.3		0.8
	Family Emission L	Family Emission Limit				Ĵ		
	Emission Standar	rds						12.0
	Applicant Notes							
ARB Emission	Standards and Certi	ification Levels						
	CARB HMC Early Con	mpliance Multiplier: 1	0			Evaporative E Diurnal + Hot (Unit: g/test):	missions ( Soak Eva	(HMC CARB-only) porative Emissions
	Air Pollutant	THC	NOx	THC+NOx	СО	776	KHNXU00	18XZX
	Certification Level	0.2		0.3	1		0.3	
	Family Emission Limit							
	Emission Standards			0.8	12		2.0	
	Emission Useful Life (UL) as applicable	UL (y	ears):5	UL (km):30000 UL (years):5 UL (km):30000				
	Applicant Notes:							
igine Family l	Description							
ngine Family Us	eful Life	EPA Required	Useful Life					
Fuel System T	ype	Single Fuel Sys	stem					
	Primary	Operating Fuel Type				Fuel Typ	pe, If Oth	er
		Gasoline						
mbustion Cycl	e	4-Stroke						
mbustion Cycl								
ylinder Arrange	ment	In Line						
ylinder Arrange								
umber of Cylind	lers	4		Valves per	Cylinder		4	
ngine Type		Reciprocating (	otto cycle)					
ngine Type, If O	ther		-					
ngine Cooling M	[edia	Liquid Cooled						
ngine Cooling M		To .						
Does this engine flisplacements?	amily contain multiple	No		New Techn	ology		No	
Technology expla	nation	1 <del>-2</del>		And Annual Annual Control of Cont	Ot .		oraquere to file	
Applicant Notes								

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Engine Family	KHNXC01.0CFA	Model Year	2019
<b>Exhaust Emission Control Information</b>			
ECS Reference Number	1	Is this engine family equipped with a catalytic converter?	Yes
Total number of catalytic converters	1	Applicable catalytic converter configuration	Single
Catalytic converter type used	Three Way Catalyst (TWC), single-bed, closed-loop warm up		
Catalyst Manufacturer Name		Catalyst Manufacturer Location	
Does the engine family use an Exhaust Gas Recirculation (EGR) technology as part of the Emission Control System?	No	Description of the EGR technology used	
Applicable engine fuel system type	Sequential Multiport FI	1	
If Other, Enter a description of the fuel system			
Method of air aspiration for the engine	Naturally Aspirated		
Method of engine aspiration, If Other			
Charge Air Cooler Type	No Air Cooler		
Electronic engine control module type	Engine Control Module		
Applicable method of air injection methodology	Pulse Secondary Air Injection		
Air injection methodology, If Other			
Air/fuel feedback sensor used on this engine family	Yes		
Sensor Type	Heated Oxygen Sensor		
Sensor Type, If Other			
Number of feedback sensor(s) used	1		
Configuration of the feedback sensors arrangement	Single		
Applicant Notes			

Engine Family	KHNXC01.0CFA	Model Year	2019
Exhaust Emission Data Vehicle/Engin	e (EDV/E) and Emissions Test	Data	
Test Vehicle Number	1		JH2SC7770HK000003
EDV/Test Data Type	Carryover	Original EF Name That Contains EDV Data	HHNXC01.0BFA
DDV Engine Family if Different from EDV		a a 4 T	
Engine Family	 GDD 1000G1	8	HED2
Model Name	CBR1000S1		42
Road Load Force (N)	131.		126
Rated Power Unit	kW		10400
Cylinder (Block) Arrangement	In Line	•	4
CCS Number (From Tab 4)	1	* '	1000
Cransmission	Manual		6
N/V Ratio	45.2	• • •	280
Curb Mass (in kg) Manufacturer Comments	196	Loaded Vehicle Mass (kg):	276
MFR Test ID Test Date Number Test By	Test For Test Fuel	Tested at Cumulativ Test e Km or Measuremen Test Result Hr t Unit HC NO:	x HC + NOx CO CO2
	1000101 10001400		a Herrioa co cos
	1600100		A HETHOR CO
			A RETION OF COL
			A RETION OF COL
			A RETION OF CO.
			A RETION CO
			A ROTHOR CO COA
EPA Certification Levels and Deterion	ration Factors		
EPA Certification Levels and Deterion End of Useful Life Emissions Value Calculated by applying DF		NOx HC + NOx 0.053 0.265	CO 0.83

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<b>Engine Family</b>		KHNXC01.0CFA		Model Year		2019	
EPA Deteriora	ntion Factor Type	нс	N	Юx	HC + NOx		CO
Multi	plicative	1.219	1.096		9.999		1.174
Federal Mandat	tory Greenhouse Gas	(GHG) Reporting					
GHG Name	GHG Value	Unit of GHG Value	Measured/Estimated at Distance (km)	By Method	Test Vehicle ID	Reference/Citations	Test/Estimation Date
CO2	142	Grams Per Kilometer	3511	Tested result from the EDV(s) of the Engine Family	JH2SC7770HK000003	Directly measured value	10/21/2016
N2O	0.003	Grams Per Kilometer	3511	Tested result from the EDV(s) of the Engine Family	JH2SC7770HK000003	Directly measured value	10/21/2016
СН4	0.025	Grams Per Kilometer	3511	Tested result from the EDV(s) of the Engine Family	JH2SC7770HK000003	Directly measured value	10/21/2016
Applicant notes fo	or GHG data						

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Engine Family	KHNXC01.0CFA	Model Year	2019
EPA - ONLY Permeation Emissions Con	trol/Test Data		
Fuel Tank Permeation Emissions Details			
Fuel Tank #1			
Permeation Family Name	KHNXPMETAL02	Certification Level (g/m2/day)	0.8
Emission Standard (g/m2/day)	1.5	Family Emission Limit (g/m2/day)	
<b>Certification Method</b>	Emission tests	Fuel Tank Manufacturer	Honda Motor Co.,Ltd.
Other			
Use Carry-over Test Data?	Yes	If carryover, from Permeation Family	JHNXPMETAL02
Carryover DF	Yes	If carryover, from DF Permeation Family	JHNXPMETAL02
Tank Material	Metal		
Tank Material if Other			
Control Strategy	Inherently Low/Zero Permeation Material		
Least Thickness (mm)		Least Barrier Weight (%)	
Least Barrier Mol (%)		Least Barrier Thickness (mm)	
<b>Production Method</b>	Other Production Method		
<b>Production Method if Other</b>			
Press and we			
Test Data (g/m2/day)	0.80	DF (g/m2/day)	0.00
EPA Certificate Number			
<b>Fuel Line Permeation Emissions Details</b>			
Fuel Line #1			
Certification Level (g/m2/day)	10	Emission Standard (g/m2/day)	15
<b>Permeation Emissions Certification Method</b>	Emission tests	Fuel Line Manufacturer	SUMITOMO RIKO
Certified By Design LINE			
Other			
Use Carry-over Test Data?	Yes	If carryover, from Permeation Family	JHNXPMETAL02
Carryover DF	Yes	If carryover, from DF Permeation Family	JHNXPMETAL02
Fuel Line Material	Other		
Fuel Line Material			
FKM/ECO//AGE-ECO			
Least Thickness (mm)	3	Test Results (g/m2/day)	9.5
DF (g/m2/day)	0.0	EPA Certificate Number	
Fuel Line #2			
Certification Level (g/m2/day)	10	Emission Standard (g/m2/day)	15
Permeation Emissions Certification Method	Emission tests	Fuel Line Manufacturer	SUMITOMO RIKO
Certified By Design LINE	Dans Caf 40, COI Culturi		

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Engine Family	KHNXC01.0CFA	Model Year	2019
Other			
Use Carry-over Test Data?	Yes	If carryover, from Permeation Family	JHNXPMETAL02
Carryover DF	Yes	If carryover, from DF Permeation Family	JHNXPMETAL02
Fuel Line Material	Other		
Fuel Line Material			
FKM/ECO//AGE-ECO			
Least Thickness (mm)	3	Test Results (g/m2/day)	9.5
DF (g/m2/day)	0.0	<b>EPA Certificate Number</b>	
Fuel Line #3			
Certification Level (g/m2/day)	10	Emission Standard (g/m2/day)	15
Permeation Emissions Certification Method	Emission tests	Fuel Line Manufacturer	KOKOKU
Certified By Design LINE			
Other			
Use Carry-over Test Data?	Yes	If carryover, from Permeation Family	JHNXPMETAL02
Carryover DF	Yes	If carryover, from DF Permeation Family	JHNXPMETAL02
Fuel Line Material	Other		
Fuel Line Material			
FKM/ECO			
Least Thickness (mm)	2	Test Results (g/m2/day)	10.1
DF (g/m2/day)	0.0	<b>EPA Certificate Number</b>	
Comments			

Engine Family	KHNXC01.0CFA	Model Year	2019
Models Covered			
Model #1			
Reference Model Number	1	Final Assembly Manufacturer Name	Honda Motor Co. Ltd.
Manufacturer Model Name	CBR1000RR	Commercial / Advertised Model Name	CBR1000RR
Engine Code	KED1	Vehicle Category	HMC:Class III
Evaporative Family (CARB)	KHNXU0018XZX	Number of Evaporative Canisters (CARB)	1
Displacement (cc)	1000	Bore (mm)	76.0
Stroke (mm)	55.1	Basic Ignition Timing (degrees, BTDC)	3.3
Rated Power (kW)	126	RPM @ Rated Power	10400
Rated Torque (nt-m)	116	RPM @ Rated Torque	10400
N/V Ratio	45.2	Curb Mass (kg)	195
Equivalent Inertial Mass (kg)	280	Loaded Vehicle Mass (kg):	275
Transmission (e.g. M5, A3, etc.)	M6		
Vehicle Emission Compliance Information (VECI) Label Type	50-state sales w/ 50-state Label		
Fuel System			
Emission Control System (model / rating specific)	1	Projected Sales (CBI) - CA Only	
Projected Sales (CBI) - US Total (includes CA Sales)		Projected Sales (CBI) - US (49-States)	
Mfr Previously Exempted?			<del></del>
Permeation Family Name (s)	KHNXPMETAL02		
Applicant Notes			
Model #2			
Reference Model Number	2	Final Assembly Manufacturer Name	Honda Motor Co.Ltd.
Manufacturer Model Name	CBR1000RA	Commercial / Advertised Model Name	CBR1000RR ABS
Engine Code	KED2	Vehicle Category	HMC:Class III
Evaporative Family (CARB)	KHNXU0018XZX	Number of Evaporative Canisters (CARB)	1
Displacement (cc)	1000	Bore (mm)	76.0
Stroke (mm)	55.1	Basic Ignition Timing (degrees, BTDC)	3.3
Rated Power (kW)	126	RPM @ Rated Power	10400
Rated Torque (nt-m)	116	RPM @ Rated Torque	10400
N/V Ratio	45.2	Curb Mass (kg)	197
Equivalent Inertial Mass (kg)	280	Loaded Vehicle Mass (kg):	277
Transmission (e.g. M5, A3, etc.)	M6		
Vehicle Emission Compliance Information (VECI) Label Type	50-state sales w/ 50-state Label		
Fuel System			
Emission Control System (model / rating specific)	1	Projected Sales (CBI) - CA Only	
specific)	<u> </u>	1 Tojecteu Baics (CDI) - CA Only	

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Engine Family	KHNXC01.0CFA	Model Year	2019
Projected Sales (CBI) - US Total (includes CA Sales)		Projected Sales (CBI) - US (49-States)	
Mfr Previously Exempted?		_	
Permeation Family Name (s)	KHNXPMETAL02		
Applicant Notes			
Model #3			
Reference Model Number	3	Final Assembly Manufacturer Name	Honda Motor Co.Ltd.
Manufacturer Model Name	CBR1000S1	Commercial / Advertised Model Name	CBR1000RR SP
Engine Code	KED2	Vehicle Category	HMC:Class III
Evaporative Family (CARB)	KHNXU0018XZX	Number of Evaporative Canisters (CARB)	1
Displacement (cc)	1000	Bore (mm)	76.0
Stroke (mm)	55.1	Basic Ignition Timing (degrees, BTDC)	3.3
Rated Power (kW)	126	RPM @ Rated Power	10400
Rated Torque (nt-m)	116	RPM @ Rated Torque	10400
N/V Ratio	45.2	Curb Mass (kg)	196
Equivalent Inertial Mass (kg)	280	Loaded Vehicle Mass (kg):	276
Transmission (e.g. M5, A3, etc.)	M6	( <b>g</b> /	
Vehicle Emission Compliance Information (VECI) Label Type	50-state sales w/ 50-state Label		
Fuel System			
Emission Control System (model / rating specific)	1	Projected Sales (CBI) - CA Only	
Projected Sales (CBI) - US Total (includes CA Sales)		Projected Sales (CBI) - US (49-States)	
Mfr Previously Exempted?		_	
Permeation Family Name (s)	KHNXPMETAL02		
Applicant Notes			
Model #4			
Reference Model Number	4	Final Assembly Manufacturer Name	Honda Motor Co.Ltd
Manufacturer Model Name	CBR1000S1	Commercial / Advertised Model Name	CBR1000RR SP
Engine Code	KED3	Vehicle Category	HMC:Class III
Evaporative Family (CARB)		Number of Evaporative Canisters (CARB)	1
Displacement (cc)	1000	Bore (mm)	76.0
Stroke (mm)	55.1	Basic Ignition Timing (degrees, BTDC)	3.3
Rated Power (kW)	126	RPM @ Rated Power	10400
Rated Torque (nt-m)	116	RPM @ Rated Torque	10400
N/V Ratio	45.2	Curb Mass (kg)	195
Equivalent Inertial Mass (kg)	280	Loaded Vehicle Mass (kg):	275

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<b>Engine Family</b>	KHNXC01.0CFA	Model Year	2019
Transmission (e.g. M5, A3, etc.)	M6		
Vehicle Emission Compliance Information (VECI) Label Type	49-state Sales w/ 49-state Label		
Fuel System			
Emission Control System (model / rating specific)	1	Projected Sales (CBI) - CA Only	
Projected Sales (CBI) - US Total (includes CA Sales)		Projected Sales (CBI) - US (49-States)	
Mfr Previously Exempted?			
Permeation Family Name (s)	KHNXPMETAL02		
Applicant Notes			